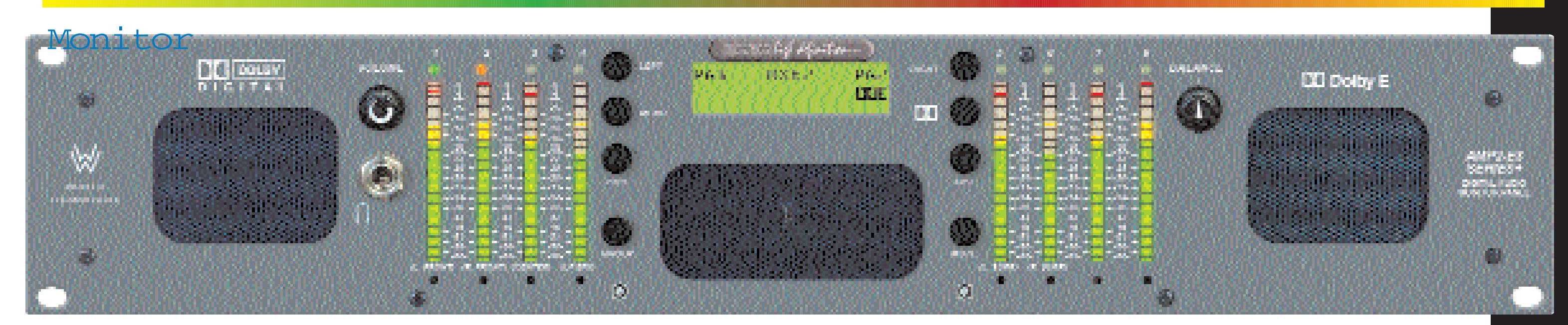
World Leader •In-Rack• Audio & Video Monitoring

WOHLER AMP2-E8HDA

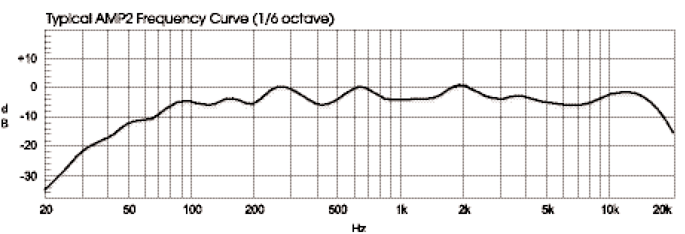
8 Channel Analog, AES/EBU, HD-SDI, Dolby® Digital & Dolby® E Audio Monitor

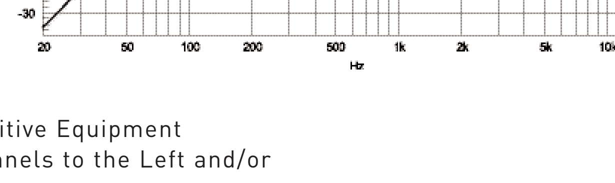
September 3, 2004



Features:

- Powerful 104dB SPL at 2 feet (0.6m)
- Premium Quality Drivers & Power Amplifiers
- Excellent Frequency Response and Low Distortion
- Audible Indications of Phase/Polarity Problems
- Phase-Correlation Display of Selected Channels
- Eight 53-Segment Tri-Color LED Bargraphs displaying Simultaneous VU and PPM
- Headphone Jack (mutes speakers)
- Thorough Magnetic Shielding for Placement next to Sensitive Equipment
- Front Panel Summing of any Combination of up to 8 Channels to the Left and/or Right Speakers & Selected Analog Outputs





Inputs:

- Analog Audio
- AES/EBU Audio
- HD-SDI with Embedded AES/EBU Audio, Embedded Dolby® Digital Audio, or Embedded Dolby® E
- Dolby® E or Dolby® Digital Audio

Outputs:

- 8 Analog Outputs Demuxed from any 2 HD-SDI Audio Groups or Converted from AES/EBU Digital Inputs
- 4 AES/EBU Digital Outputs Demuxed from any 2 HD-SDI Audio Groups
- Simultaneous AES/EBU output of decoded Dolby® E/Dolby® Digital
- 8 Channel Analog Output is NOT Available from Dolby® encoded sources
- Optional Extra: Composite Video Output

Wohler is proud to introduce the AMP2-E8HDA, the world's first in-rack audio monitor capable of outputting and/or displaying EITHER "Encoded" Multi-channel audio (up to eight channels) from Dolby® E or Dolby® Digital streams de-embedded from HD-SDI , OR "Discrete" multi-channel audio programs which are embedded as discrete audio into an HD-SDI signal without prior Dolby® Encoding.

Close cooperation with Dolby Laboratories has again ensured development of this latest Wohler product that meets the high standards for the monitoring of both Dolby® E distribution and Dolby® Digital emission coding systems.

The ability to seamlessly switch between encoded or discretely-embedded sources, in addition to providing full simultaneous demuxed output of the multi-channel source, offers a quite significant new operational capability in a single monitor unit.

The AMP2-E8HDA features an exceptionally high quality monitoring system offering premium multi-channel audio monitoring as well as professional level metering in a compact two rackspace cabinet. This unit contains three audiophile-quality drivers and three power amplifiers; two speakers and amplifiers reproduce midrange and high frequency information in stereo, while the third amp/driver combination handles summed LF information below the 500 Hz crossover point.

Eight 53 segment high-resolution tri-color LED level meters show simultaneous VU and PPM for superior level-metering. The front panel features an innovative LCD Display of Phase/Polarity Relationships. Output limiter circuits are incorporated to protect the speakers, and extensive magnetic shielding allows placement immediately adjacent to video monitors with no color impurities.

The unique design provides optimally focused sound for operators in an Ultra Near Field (1 to 3 ft.) working environment and offers performance comparable to that of many separate monitor pairs, yet does so without the installation hassles, awkward speaker placements and "added-on" look. This provides

Wohler®

Audio Monitoring   Level Metering   Alarm Systems   Video Monitoring

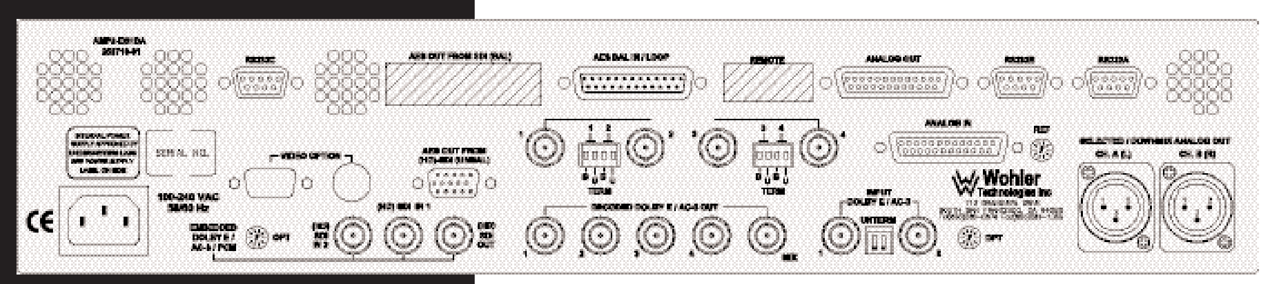
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WOHLER AMP2-E8HDA

8 Channel Analog, AES/EBU, HD-SDI, Dolby® Digital & Dolby® E Audio

Rear Panel:



System Diagram:

Specifications:

HD-SDI input	2 HD-SDI inputs on BNC, w/ reclocked out
AES/EBU inputs	4 unbalanced AES/EBU inputs (BNC) and 4 balanced AES/EBU inputs (DB-25)
Analog input	8 balanced analog inputs (DB-25)
Analog output	8 balanced analog outputs from HD-SDI, AES/EBU, or analog (DB-25) and 2 balanced analog outputs from selected channels (XLR)
AES/EBU outputs	4 balanced AES/EBU outputs looped from the 4 balanced AES/EBU inputs (DB-25), and 4 unbalanced AES/EBU outputs from SDI (HD-15)
Dolby E/Dolby Digital® or PCM inputs	2 unbalanced inputs (BNC)
Composite video output (with Video Option installed)	1 composite video output (BNC)
Level meters	8 x 53 segment
Level meter scale	0 to -66 dB
Level meter threshold	0, +4, +6 or +8dBv : switch selectable
Level meter dynamics	Simultaneous VU & PPM
Midscale resolution	1dB
Peak acoustic output @ 2 feet	104dB SPL
Power output	RMS each side (4 W) - 10W, 14W peak RMS center WOOFER (4 W) - 25W, 35W peak
Frequency response (1/6 octave)	80Hz - 16kHz (±5dB) (-10dB @ 40Hz, 20kHz)
Analog input impedance ...	>40 kW balanced
AES/EBU input termination .	110 W balanced 75 W unbalanced
HD-SDI input termination ..	75 W unbalanced
AES/EBU input sampling rate	32-48kHz, auto-detecting
Hum and noise	better than -68dB below full output
Electrical distortion	<0.15% at any level below limit threshold
Acoustic distortion	6% or less worst case frequencies above 140Hz including cabinet resonance, typically < 1.5%

All specifications are subject to improvement



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